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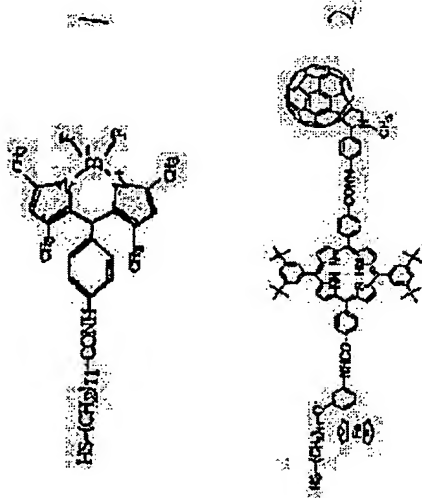
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(21)Application number : 2000-203436 (71)Applicant : JAPAN SCIENCE & TECHNOLOGY CORP

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(54) LIGHT ENERGY-ELECTRIC ENERGY CONVERSION SYSTEM WITH ANTENNA COMPOUND AND CHARGE SEPARATION TYPE COMPOUND ACCUMULATED ON ELECTRODE AS MIXED SELF-ORGANIZED MONOMOLECULAR FILM



(57)Abstract:

PROBLEM TO BE SOLVED: To provide an artificial photosynthetic aggregate of potential utility.

SOLUTION: This light energy-electric energy conversion system is characterized in that a self-organized monomolecular film is formed on a surface of a metallic or semiconductor film formed on a surface of a substrate by mixing an energy-donor compound having a boron-dipyrin portion by covalent bonding or coordinate bonding, such as the compound of the formula 1, and an energy- acceptor compound having a ternary system, such as the compound of the formula 2, so that energy can move between the two compound.

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